CLAIMS

[1] A method for inducing differentiation of cardiomyocytes from stem cells, wherein

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stem cells are cultured to induce differentiation in the presence of a substance that inhibits BMP signaling.

- [2] The method according to Claim 1, wherein culture of the stem cells to induce differentiation comprises a step of forming embryoid bodies by floating aggregation culture.
- 10 [3] The method according to Claim 1, wherein culture of the stem cells to inducedifferentiation comprises a step of co-culturing with feeder cells.
 - [4] The method according to Claim 1, wherein culture of the stem cells to inducedifferentiation comprises a step of plate culturing on a culture container.
 - [5] The method according to any one of Claims 1 through 4, comprising a step of treating the stem cells with the substance that inihibits BMP signaling during the first few days of the differentiation-inducing stage.
- 20 [6] The method according to any one of Claims 1 through 4, comprising a step of treating the stem cells with the substance that inihibits BMP signaling during predifferentiation stage.
- [7] The method according to any one of Claims 1 through
 25 4, comprising a step of treating the stem cells with the
 substance that inihibits BMP signaling during predifferentiation stage, and a step of treating the stem
 cells with the substance that inihibits BMP signaling

during the first few days of the differentiation-inducing stage.

- [8] The method according to any one of Claims 1 through 7, wherein the substance that inihibits BMP signaling is a BMP antagonist.
- [9] The method according to Claim 8, wherein the BMP antagonist is one or more selected from a group comprising Noggin, Chordin, fetuin, follistatin, sclerostin, DAN, Cerberus, gremlin, Dante and related proteins thereof.

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[10] The method according to any one of Claims 1 through 9, wherein

the stem cells are mammalian-derived cells having the ability to differentiate into cardiomyocytes in vitro.

- 15 [11] The method according to Claim 10, wherein the mammalian-derived cells having the ability to differentiate into cardiomyocytes are pluripotent stem cells or cells derived therefrom.
- [12] The method according to Claim 11, wherein
 the pluripotent stem cells are embryonic stem cells,
 cells with a similar morphology to embryonic stem cells,
 embryonic germ cells, or multipotent adult progenitor cells.

 [13] The method according to Claim 12, wherein

the pluripotent stem cells are embryonic stem 25 cells.

[14] Cardiomyocytes obtained by the method according to any one of Claims 1 through 13.